

**CIRCULAR SAWING MACHINES.**—Mr. Robert W. Parker, of Roxbury, U.S., has invented an improvement in driving circular saws, which, it is asserted, obviates much of the friction attendant upon the ordinary modes of running such saws. By a peculiar arrangement of belts and pulley, Mr. Parker states that he can easily get, by hand power, 2,600 revolutions of a buzz saw per minute, cutting through a three-inch plank in that period by the power of one man at the crank.

**WALL PAINTINGS ABROAD.**—"We learn from Munster, Westphalia," says the *Literary Gazette*, "that some fresco paintings of the thirteenth century have been lately discovered in the church at Seremborn, near that town, and that a curious specimen of painted glass has been found at Legenwinden. In the chief aisle of Patroklos Church, at Soest, Romanic frescoes and statuettes of the twelfth century have been discovered, and measures taken to remove from them the coatings of lime and plaster which the fanaticism or the ignorance of former years has heaped on them. It has also been discovered that the Nicolai Chapel, in Soest Cathedral, is entirely covered with very curious paintings of the twelfth century."

**ISTHMIAN OF SUZ RAILWAY AND CANAL.**—From Alexandria, the line proceeds in a south-eastern direction to Damanhour, passing at short distances from Salamoun, Nadir, Wardan, and Kelioub, to Cairo. The proposed route across the desert from Cairo to Suz, branches off from the Alexandrian line at Bulah, a few miles north of Cairo, and proceeds nearly parallel with the present Great Hadj route, to Suz on the Red Sea. The route of the proposed ship canal commences in the Mediterranean, at the mouth of the Tineb, the entrance to the ancient Pelusiac Canal, and proceeds in a southern direction to Suz, terminating in vestiges of the ancient canal of Senosiris or Necho. Mr. Wyld, of Charing Cross, has published a map, in which these routes are traced out.

**DIVIDING AND MEASURING MACHINE.**—A new invention has been described to us as exhibited at the Crown Tavern, near the Obelisk, Blackfriars-road. It is the production of a working-man, named Thomas Best, an engineer and machinist at Greenacre's-moor, near Manchester. The body of the machine is described as consisting of a telescope frame of steel, containing a screw, half-an-inch in diameter, and 7 inches long—a wheel, 14 inches in diameter, being affixed to one end of the screw. The edge of the wheel is divided into 500 parts, and as it requires 20 complete revolutions of the wheel to advance the screw 1 inch, the turning it one division will advance the screw 1/10,000th part of an inch. To the wheel-end of the telescope-frame a steel point is attached, the top of which (level with the upper part of the wheel) is the breadth of two of the wheel divisions. On one side the point is divided into ten, and on the other into six parts, so that the turning of the wheel the distance of one of these very minute divisions will cause the screw to move 1/60,000th or 100,000th part of an inch, as may be required. Allowances for expansion or contraction of the metal of the machine are also provided for. For the purposes of dividing, an addition is made on one side of a rest, for the substance to be graduated, and a tool-box is substituted for the face attached to the main-screw. It is said to be capable of dividing the English standard of lineal measure, its component 1/100,000th part of an inch, but as it is regulated in tenths it is more immediately adapted to the division of foreign standards of lineal measure, and the graduation of scales in accordance therewith.

**THE BANKING INSTITUTE.**—At the Hall of Commerce Chambers, in Threadneedle-street, the first monthly meeting of this institute was held on the 25th inst., when Mr. Dalton read a paper on the question, "How far is the security of Banker's Locks affected by the recent scientific and ingenious experiments on patent locks?" The meeting was addressed by Mr. Chubb and Mr. Hobbs, who had been invited to attend. The proceedings did not exactly satisfy us, although we cannot say why.

**THE MARYLEBONE LITERARY INSTITUTION.**—A new lecture theatre has been built for this excellent institution, and will be opened on Monday, 1st December, with a reading from Shakspeare by Miss Glynn. We will give some particulars. Amongst the lectures announced are six by Mr. Thackeray on the Humorous Writers of the last century, for which, by the way, he is to receive the sum of 150l.

**NEW BRIDGE FOR WESTMINSTER.**—The design for the new bridge is, we understand, by Mr. Hardwick, architect.

#### TO CORRESPONDENTS.

**A Question.**—Will one of your correspondents give me the rule by which to ascertain what height an object should be placed at a horizontal distance of 100 yards, and at an altitude of 50 feet, to appear 5 feet high?—IGNORANT.

"S. C. Jun.," "G. G.," "Devises Man," "C. B.," "H. A.," "J. W. P.," "T. H. W.," "C. O." (we hope to give details hereafter: the roof at King's-cross Station has no tie-rods), "A Building Operative" (our correspondent draws a wrong inference: we meant to say by the quotation referred to, "G. M. H.," "W. H.," "G. D. D.," "Mr. F.," "Moses Adams" (had better hear the writer out first), "Crito" (we have no desire to quarrel; but unhesitatingly decline the alternative), "W. C. Jun." (the means of destroying ants were discussed in our pages some time ago), "An Inquirer" (the subjects mentioned are treated of throughout *THE BUILDER*: it is impossible for us to refer), "G. E. L.," "C. B.," "E. J. P." (we shall be happy to see the notes), "E. R." (may discuss the matter with Mr. Wells: we decline correspondence on the subject), "E. A. F." (will appear), "E. L. G." (thanks), "J. B. D." (the letter appeared to be in our correspondent's handwriting), "A Subscriber from First," "W. H.," "E. W.," "G. E. G.," "R. H."

**NOTICE.**—All communications respecting advertisements should be addressed to the "Publisher," and not to the "Editor;" all other communications should be addressed to the Editors, and not to the Publisher.

**Books and Addresses.**—We have not time to point out books or find addresses.

#### ADVERTISEMENTS.

**BENNETT'S THERMOMETERS,** 65, Chancery-lane. Railways, baths, churches, gardens, and chambers supplied with every kind of THERMOMETER at this manufactory, where 1,000 may be had for 50s. or may be selected from, at 1s. each, in 5-inch by 1-inch frames; larger sizes to suit every place, purpose, and climate. Barometers at equally moderate prices.—BENNETT, T. Wash, Clock, and Instrument Maker to the Royal Observatory, the Board of Ordnance, the Admiralty, and the Queen.—65, Chancery-lane.

**LITHOGRAPHY AND ENGRAVING.**—Little Place, Drawings of Machinery, Manufactures, Patterns, Landscapes and Portraits, Show Cards, Circular Letters, &c. Bankers' Notes and Cheques, Certificates, Bills of Exchange and Letters, Invitations, Cards, &c., and every description of Engraving and Lithography by the first artists and workmen, at the lowest current rate of charges.—WATERLOW and SONS, 55 to 56, London-wall, London.

**BILLS OF QUANTITIES.—DAY & SON,** Lithographers to the Queen.—Lithograph Bills of Quantities with the greatest despatch, and at a vast saving on the prices generally charged.  
17, GATE-STREET, LINCOLN'S-INN-FIELDS.

**TO ARCHITECTS**  
**COMPETITION AND OTHER DRAWINGS.**—Mr. THOMAS B. BRYAN, Member of the New Society of Painters in Water Colours, and author of "The Picturesque Architecture of Paris, Orléans, Rouen, &c.," and of "London as it is," offers his services in Painting Backgrounds, Landscapes, Perspective Views, Interiors, &c. From the long experience he has had in such subjects, he is fully aware of the points essentially necessary to be attended to. Drawings and designs lithographed in a superior manner.—Address, Mr. BRYAN, 12, Albany-street, Regent's-park.

**DECORATIVE PAINTING.**—Mr. FREDERICK RAY, from the Royal Academy of Munich, DECORATIVE ARTIST in FINE COLOUR, and in all other manners of Painting: whose works may be seen in the principal public buildings of the metropolis, begs to inform his patrons and Architects in particular, that he has considerably increased his Establishment, and is now enabled to undertake, on the shortest notice, the embellishment of private and public buildings, in any part of the United Kingdom, on the most reasonable terms, and in any of the Classical, Modern, or Modern Styles.—Apply to F. RAY, Decorative Artist, 25, Pall-mall, London.

**THE DEPOSITORS OF WORKS OF ART**  
AND INGENUITY IN THE GREAT EXHIBITION, and others, are respectfully informed that the ROYAL POLYTECHNIC INSTITUTION, incorporated in 1824, is CLOSED to the PUBLIC, for the purpose of receiving approved Deposits for sale or otherwise, without expense to the Depositors. Those who wish to embrace this opportunity should send their works before the 1st of December, and they will then be fully participated in the Catalogue.  
THE INSTITUTION will be RE-OPENED on the 6th of DECEMBER.  
R. L. LONGBOTTOM, Secretary.

**COLOSSEUM.**—The original and extraordinary PANORAMA OF LONDON, painted by ME. PARRIS, will be EXHIBITED, with the other splendid features of this Establishment, on every evening, except Saturdays, from 7 till 10. The most admired music from two till half-past four, and during the evening when the conservatories, &c., &c., are brilliantly illuminated. Admission, day or evening, 3s.; children and schools, half-price. CYCLOPEDIA, Albany-street, admission 1s. A grand moving Panorama of Lisbon and the Earthquake in 1755, is exhibited daily at Three, and every evening except Saturdays, at Eight o'clock. Illustrated by appropriate music on the new grand Apollo-room. Children and schools half-price.

**PUPIL.**—A Civil Engineer, engaged in the country on a line of railway, has a VACANCY in his office for a PUPIL, who would have abundant opportunity of learning his profession. Premium for three years, 100l. or further information, address to DELTA, Mr. Reid's, Stationer, 12, Chancery-lane, London.

**IN A Builder's office there is a VACANCY** for a Young Man desirous of IMPROVEMENT, and as he will have many advantages, a small salary only will be given.—Address to G. H. Office of "The Builder," 1, York-street, Covent-garden.

**APPRENTICE to a Builder.**—The friends of a B.A.D. educated at the Blue Coat School, wish to put him as an IN-DOOR APPRENTICE to a Carpenter and Builder, with whom he will meet with considerate treatment, and acquire a knowledge of the business.—Address, with terms and other particulars, P. Post Office, 109, Strand.

**TO ARCHITECTS AND SURVEYORS**  
**A TRADESMAN** has a SON, a respectable youth, fourteen and a half years of age, who has a good idea of planning, drawing, and land surveying, he wishes to place in a respectable office as an OUT-DOOR APPRENTICE for any length of time he may be agreed upon. No premium will be given, as the lad's services may be made equivalent.—Address, A. B. M. Spalding's, Stationer, 22, High-street, Notting-hill.

**WANTED, an expeditious ARCHITECTURAL DRAUGHTSMAN,** capable of making perspective and other drawings, with a good knowledge of the Italian style.—Address, A. E. Crosswell's, 3, John-street, Oxford-street.

**WANTED, in a large Building Firm in Town, an EXPERIENCED MAN,** competent to take out quantities, measure and estimate, and keep prime-cost accounts.—Address, post-paid, to A. B. Mason's-hall, Beaufort-hall-street.

**TO BUILDERS**  
**WANTED, a SITUATION as SHOP or WALKING FOREMAN** by a Young Man, accustomed to both duties.—Address, J. E. 10, Lamball-street, Gibson-street, Waterloo-road.

**TO ARCHITECTS, BUILDERS, AND OTHERS**  
**WANTED, a SITUATION as CLERK** of WORKS, or to superintend Building Works for Contractors. The Applicant is respectable and well-experienced in the building business. Can give good references.—Address, M. Y. T. Office of "The Builder," 1, York-street, Covent-garden.

**TO BUILDERS AND OTHERS**  
**WANTED, a SITUATION, by a thorough Builder's Accountant, of some years' experience** in the various branches of the trade; also in cost, &c. No objection to a temporary engagement, or upon arrears, in town or country.—Address, A. Z. care of Mrs. Lomas, 10, Westminster-bridge-road, Lambeth.

**TO ARCHITECTS**  
**WANTED, by a Gentleman, aged 21 (who** has superintended several works on his own account), a SITUATION as ASSISTANT in an Architect's Office. Paris factory references will be given.—Address, Z. Office of "The Builder," York-street, Covent-garden.

**THE Advertiser is open to an ENGAGEMENT** in a Builder's office as GENERAL CLERK, or to combine the superintending of the erection of buildings in which department his experience has been very considerable.—Address, A. Z. Mr. R. Stephens's, No. 73, Tottenham-court-road.

**TO ARCHITECTS, SURVEYORS, OR BUILDERS**  
**AN experienced DRAUGHTSMAN is open** to an ENGAGEMENT in Town or Country. Most respectable and satisfactory references and testimonials can be given.—Address to A. B. 4, Frederick-place, Rathfield-street, Edgware.

**TO ARCHITECTS**  
**A GOOD and expeditious Draughtsman,** who is perfectly capable of getting up working and finished drawings, perspective, &c. is a good calculator, and understands the nature of an office, is desirous of meeting with an ENGAGEMENT with an Architect, in town or country. Salary moderate.—Address, A. B. 4, Southgate-road, Kingsland.

**TO ARCHITECTS, &c.**  
**A YOUNG MAN is desirous of an ENGAGEMENT** on moderate terms; he has good practical knowledge and high references.—Address to A. Z. Mr. Clapperton's, 11, Mortimer-street, Regent-street.

**TO TIMBER MERCHANTS, BUILDERS, AND OTHERS**  
**A YOUNG MAN** of respectable connections, having twelve years' experience in the timber trade, measuring, and valuing, would ENGAGE himself in the above line, at a moderate salary.—Address, T. H. B. No. 34, Edgware-road, Marylebone.

**TO ARCHITECTS AND SURVEYORS, &c.**  
**A YOUNG MAN,** respectfully connected, having completed his articles with an eminent architect, is desirous of an ENGAGEMENT as Draughtsman and Clerk of Assistant. A small salary would not be objected to, as his object is to improve himself. Most respectable references can be given. The country not objected to.—Address, C. A. 4, Church-street, Queen-street, Finsbury.

**TO ARCHITECTS, RAILWAY CONTRACTORS, AND OTHERS**  
**A YOUNG GENTLEMAN,** who has just completed his articles in an architect's office, and has had considerable experience in railway works, wishes for an ENGAGEMENT either in England or on the continent; the most respectable references can be given.—Address, H. H. W. Mr. Blakely's solicitor, Huddersfield.

**TO ARCHITECTS AND SURVEYORS**  
**A GENTLEMAN,** fully qualified in his profession, who has been in practice himself, wishes to obtain EMPLOYMENT in London; he is a superior draughtsman, and has had extensive practical experience in every branch of the profession, being also an experienced surveyor and valuer, and leveler. Testimonials, speaking highly as to ability, &c., &c., from brother professionals and old clients, can be produced. Salary expected, 10 per week.—Address, OUTHORN, Office of "The Builder," 1 York-street, Covent-garden.

**TO ARCHITECTS, ENGINEERS, &c.**  
**A THOROUGHLY Qualified Assistant** desires an ENGAGEMENT in Town or Country. Terms moderate.—Address, ZETA, care of Mr. Smith, Carlton-chambers, 18, Regent-street.

**TO ARCHITECTS, SURVEYORS, &c.**  
**AN experienced ASSISTANT AND CLERK** of WORKS, age 31, having been in eminent office, and practically in building, wishes an ENGAGEMENT, at very moderate salary, where the following would be required: prepared plans, specifications, detailed drawings, taking out quantities, measuring, estimating, bookkeeping, and superintending works. References.—Address, SURVEY, Post-Office, Charles-street, Westminster.